Course Title: Superconducting Magnet Division Facility Specific Information for Small Scale/Bus-Bar Tinning (Process/Operation)

Course Number AM-ENV-FS5

Because this work activity has been identified as having significant potential to impact the environment, this material has been compiled to provide you with the job-specific information that you must know to protect the environment. Please read the following carefully. If you have any questions concerning the material, contact your supervisor, ES&H Coordinator or the Environmental Compliance Representative.

You may keep this material as a handout and use it as a reference aid.
This specific training course is linked to your job-training assessment (JTA). You must read and acknowledge this material as part of the qualification to perform electronic assembly work. Please fill out the Read and Acknowledgement form and return it promptly.

Environmental Process Evaluation Title: Environmental Training for Small Scale/Bus-Bar Tinning

Environmental Aspect: Regulated Industrial Waste**,** Hazardous Waste Generation, and Atmospheric Discharges

Contacts for the Information (current contacts are found on the Division's ESHQ Web page):

Environmental Compliance Rep
Facility Support Rep
ES&H Coordinator
Training Coordinator

Job Training Assessment Links: AM-06, AM-20, AM-33 (Superconducting Magnet)

Course Objective: **Because your work activities have been identified as having significant potential to impact the environment, this course has been designed to provide you with the job-specific information that you must know to protect the environment.**

1) What potential impacts to the environment are associated with your activities (i.e. types of contamination that could impact air or water, generation of excess waste)?

- Soil Contamination from improper offsite disposal
- Air pollution onsite/offsite.

2) What consequences may result if your operations were to impact the environment (i.e. disciplinary action, loss of permits, shutdown of facility)?

- Regulatory noncompliance, fines, violations.

3) What benefits or positive effects would you notice with improved environmental performance (i.e., reduced disposal costs, improved relationships with regulators and public)?

- Satisfying compliance requirements.
- Avoid NYS or EPA violations/fines.
- Good work practices.

4) What role and responsibility do you have for these potential impacts and environmental performance?

- To ensure Industrial wastes are handled according to lab procedures
- To take action when controls fail (such as calling x2222 if spills occur).
- Store solder tailings in a closed container (satellite accumulation area).

- Dispose of cleaning solvents, epoxies and solder tailings as hazardous waste.
- Complete logbook for all hood use.
- Follow applicable requirements in the following SBMS Environmental Compliance Subject Area (http://sbms.bnl.gov)
  - Hazardous Waste Management (Section 1)
  - Non-Radiological Airborne Emissions (Section 2)

5) What controls or procedures are implemented to reduce the potential for emergency?

- Satellite Accumulation Area to store solder tailings.
- Tier I inspections.
- Flammable chemicals stored in approved flammable cabinet.
- Completion of log book when using hood.
- SMD OPM 2.12, "Work Control and Planning"
- SMD OPM 8.1.1.22, "Operation of Bus Soldering Line"

6) How would you respond in an emergency to reduce the potential for environmental impact and what actions could be taken to mitigate? [Refer to existing procedures and documents (i.e. the Local Emergency Plan) where applicable]

- No specific emergency scenario is likely but, as Laboratory requirements state, call x2222 if an emergency does occur.

7) What pollution prevention and waste minimization techniques have been or could be considered to reduce or eliminate the potential to impact the environment?

- Recycling scrap metal and wire spools.
- Evaluate less hazardous substitutes for solvents.

Suggestions or comments about pollution prevention or waste minimization are always welcome by SMD management.

8) Are there any key Environmental-specific Competency Requirements (Experience, Education, Qualification) for this position?

- Hazardous Waste Generator (HP-RCRIGEN3)
- Environmental Protection Training (GE-ENV-GET)

Click Here to Fill Out Reading Acknowledgment Form